

Air pressure differences over external walls in new and retrofitted schools and daycare centers

Kauppinen, Antti; **Kiviste, Mihkel**; Pirhonen, Joni; Tuominen, Eero; Laukkarinen, Anssi; Huttunen, Petteri; Vinha, Juha Buildings 2022 / art. 1629 <https://doi.org/10.3390/buildings12101629> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Air quality as an important indicator for ergonomic offices and school premises

Traumann, Ada; **Kritševskaja, Marina**; Tint, Piia; **Klauson, Deniss** Agronomy research 2014 / p. 925-934 : ill <https://www.cabidigitallibrary.org/doi/pdf/10.5555/20143202531> [Journal metrics at Scopus](#) [Article at Scopus](#)

Algorithms for online CO2 baseline correction in intermittently occupied rooms

Vihman, Lauri; **Parts, Tuule Mall**; **Aljas, Hans Kristjan**; **Thalfeldt, Martin**; **Raik, Jaan** Healthy Buildings 2023 Europe: Beyond Disciplinary Boundaries: proceedings ; 1 2023 / p. 302-309 : ill <https://www.proceedings.com/content/070/070278webtoc.pdf>

Cost-effective heating control approaches by demand response and peak demand limiting in an educational office building with district heating

Yuan, Xiaolei; Vand, Behrang; Martin, Kristian; **Jokisalo, Juha**; Liang, Yumin; **Kosonen, Risto**; Pan, Yiqun Buildings 2023 / art. 332, 18 p. : ill <https://doi.org/10.3390/buildings13020332> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Data-driven occupancy profile identification and application to the ventilation schedule in a school building

Vassiljeva, Kristina; **Matson, Margarita**; **Ferrantelli, Andrea**; **Petlenkov, Eduard**; **Thalfeldt, Martin**; **Belikov, Juri** Energies 2024 / art. 3080 <https://doi.org/10.3390/en17133080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Draught and Infection Risk Control in Modern Educational and Office Spaces = Tõmbus- ja nakkusriski ohjamine kaasaegsetel haridus- ja büroopindadel

Kiil, Martin 2025 https://www.ester.ee/record=b5754732*est <https://digikogu.taltech.ee/et/Item/e12facc0-069c-455a-b91b-ed472db43f80> <https://doi.org/10.23658/taltech.50/2025>

The effect of positive pressure on indoor air quality in a deeply renovated school building - a case study

Vornanen-Winqvist, Camilla; Toomla, Sander; Ahmed, Kaiser; **Kurnitski, Jarek**; Mikkola, Raimo; Salonen, Heidi Energy procedia 2017 / p. 165-170 : ill <https://doi.org/10.1016/j.egypro.2017.09.679> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Effect of the urban microenvironment on the indoor air temperature of the residential building stock in the Helsinki region

Kravchenko, Iliia; Farahani, Azin Velashjerdi; **Kosonen, Risto**; Kilpeläinen, Simo; Saranko, Olli; Fortelius, Carl Building and Environment 2023 / art. 110971 <https://doi.org/10.1016/j.buildenv.2023.110971> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effects of night ventilation on indoor air quality in educational buildings—a field study

Lestinen, Sami; Kilpeläinen, Simo; **Kosonen, Risto**; Valkonen, Maria; **Jokisalo, Juha**; Pasanen, Pertti Applied sciences 2021 / art. 4056, 20 p. : ill <https://doi.org/10.3390/app11094056> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effects of ventilation improvement on measured and perceived indoor air quality in a school building with a hybrid ventilation system

Vornanen-Winqvist, Camilla; Salonen, Heidi; **Kurnitski, Jarek** International journal of environmental research and public health 2018 / art. 1414, 18 p. : ill <https://doi.org/10.3390/ijerph15071414> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ehitusteadlased selgitavad, miks on talvel siseruumides liiga kuiv õhk [Võrguväljaanne]

novaator.err.ee 2020 / fot [Ehitusteadlased selgitavad, miks on talvel siseruumides liiga kuiv õhk](#)

Emissions of DEHP-free PVC flooring

Castagnoli, Emmanuelle; Backlund, Peter; Talvitie, Oskari; **Kurnitski, Jarek** Indoor air 2019 / p. 903-912 : ill <https://doi.org/10.1111/ina.12591> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Endine epidemioloog: koroona võidab lahtine aken, mitte suletud majandus [Võrguväljaanne]

Trei, Toomas epl.delfi.ee 2021 ["Endine epidemioloog: koroona võidab lahtine aken, mitte suletud majandus"](#)

Enhanced visible and ultraviolet light-induced gas-phase photocatalytic activity of TiO2 thin films modified by increased amount of acetylacetone in precursor solution for spray pyrolysis

Spiridonova, Jekaterina; **Mere, Arvo**; **Krunks, Malle**; **Rosenberg, Merilin**; Kahru, Anne; **Danilson, Mati**; **Kritševskaja, Marina**; **Oja Acik, Ilona** Catalysts 2020 / 21 p. : ill <https://doi.org/10.3390/catal10091011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Environmental and occupational impact on human health of dust and chemicals from modern technologies

Traumann, Ada; Reinhold, Karin; Tint, Piia Environmental engineering and management journal 2014 / p. 2233-2241 : ill

Estonian researchers build a platform to make perfect indoor air conditions

estonianworld.com 2023 [Estonian researchers build a platform to make perfect indoor air conditions](#)

Holistic approach to design healthy and resilient apartments

Sepulveda Luque, Abel; Smirnov, Roman; Donaire Galiano, María Dolores REHVA European HVAC Journal 2022 / p. 63-69
<https://www.rehva.eu/rehva-journal/chapter/holistic-approach-to-design-healthy-and-resilient-apartments>

Hoonete energiatõhusus [Võrguteavik] : hoonete ventilatsioon. Osa 1, Sisekeskkonna lähteandmed hoonete energiatõhususe projekteerimiseks ja hindamiseks, lähtudes siseõhu kvaliteedist, soojuslikust keskkonnast, valgustusest ja akustikast. Moodul M1-6 : Eesti standardi rahvuslik lisa = Energy performance of buildings : ventilation for buildings. Part 1, Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lightning and acoustics. Module M1-6 : Estonian National Annex

2019 https://www.ester.ee/record=b5272875*est

Hoonete energiatõhusus [Võrguteavik] : hoonete ventilatsioon. Osa 1, Sisekeskkonna lähteandmed hoonete energiatõhususe projekteerimiseks ja hindamiseks, lähtudes siseõhu kvaliteedist, soojuslikust keskkonnast, valgustusest ja akustikast. Moodul M1-6 = Energy performance of buildings : ventilation for buildings. Part 1, Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lightning and acoustics. Module M1-6

2019 https://www.ester.ee/record=b5272879*est

Hoonete energiatõhusus [Võrguteavik] : hoonete ventilatsioon. Osa 1, Sisekeskkonna lähteandmed hoonete energiatõhususe projekteerimiseks ja hindamiseks, lähtudes siseõhu kvaliteedist, soojuslikust keskkonnast, valgustusest ja akustikast. Moodul M1-6 = Energy performance of buildings : ventilation for buildings. Part 1, Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lightning and acoustics. Module M1-6

2019 https://www.ester.ee/record=b5272854*est

Improvement of work environment in SME-s through modelling the prevention of health risks caused by pollutants in the air

Traumann, Ada TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

Indoor air quality in educational institutions in Estonia

Traumann, Ada; Tint, Piia; Tuulik, Viu Environmental engineering and management journal 2012 / p. 207-214

Indoor air temperature and relative humidity measurements in Finnish schools and day-care centres

Kiviste, Mihkel; Laukkarinen, Anssi; Kauppinen, Antti; Tuominen, Eero; Ketko, Joonas; Vinha, Juha; Raunima, Tuomas Building and environment 2023 / art. 110969 <https://doi.org/10.1016/j.buildenv.2023.110969>

Indoor climate loads for dwellings in different cold climates to assess hygrothermal performance of building envelopes

Ilomets, Simo; Kalamees, Targo; Tariku, Fitsum Canadian journal of civil engineering 2019 / p. 963-968 <https://doi.org/10.1139/cjce-2019-0079> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Jarek Kurnitski pälvis oma teadustöö eest kuldse autasu

Ehitaja 2024 / lk. 10 : fot https://www.ester.ee/record=b1072123*est

Kas korteris õhku jätkub?

Sasi, Lennart Ehituskaar 1996 / 9, lk. 28

Kuidas viiruste levikut siseruumides tõkestada: 40 teadlase soovitusel [Võrguväljaanne]

forte.delfi.ee 2021 ["Kuidas viiruste levikut siseruumides tõkestada: 40 teadlase soovitusel2"](#)

Mandating indoor air quality for public buildings : If some countries lead by example, standards may increasingly become normalized

Morawska, Lidia; Allen, Joseph; Bahnfleth, William; Bennett, Belinda; Bluyssen, Philomena M.; Boerstra, Atze; Buonanno, Giorgio; Cao, Junji; Dancer, Stephanie J.; Floto, Andres; Franchimon, Francesco Science 2024 / p. 1418-1420
<https://doi.org/10.1126/science.adl0677>

40 tippteadlast: viiruste leviku tõkestamiseks siseruumides on vaja uusi standardeid [Võrguväljaanne]

mu.ee 2021 ["40 tippteadlast: viiruste leviku tõkestamiseks siseruumides on vaja uusi standardeid "](#)

Old dry mold growth seems to emit less bioactive metabolites and surfactants than actively growing microbes

Andersson, Maria A.; Marik, Tamas; Kredics, Laszlo; Salonen, Heidi; **Kurnitski, Jarek** Sisäilmastoseminaari 2019 : 14.3.2019 2019

Online questionnaire as a tool to assess symptoms and perceived indoor air quality in a school environment

Järvi, Kati; Vornanen-Winqvist, Camilla; Mikkola, Raimo; **Kurnitski, Jarek**; Salonen, Heidi Atmosphere 2018 / art. 270, p. 1-20 : ill <https://doi.org/10.3390/atmos9070270> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Photocatalytic degradation of different VOCs in the gas-phase over TiO₂ thin films prepared by ultrasonic spray pyrolysis

Dundar, Ibrahim; **Kritševskaja, Marina**; **Katerski, Atanas**; **Krunks, Malle**; **Oja Acik, Ilona** Catalysts 2019 / art. 915 ; 18 p. : ill <https://doi.org/10.3390/catal9110915> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Photocatalytic oxidation of VOCs AS individual air pollutants and in mixtures on the TiO₂ thin films

Sydorenko, Jekaterina; **Mere, Arvo**; **Krunks, Malle**; **Kritševskaja, Marina**; **Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 58 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

Potential effects of permeable and hygroscopic lightweight structures on thermal comfort and perceived IAQ in a cold climate

Kurnitski, Jarek; **Kalamees, Targo**; Palonen, J.; Eskola, Lari; Seppänen, Olli Indoor air 2007 / 1, p. 37-49 <https://pubmed.ncbi.nlm.nih.gov/17257151/>

Practical indicators for risk of airborne transmission in shared indoor environments and their application to COVID-19 outbreaks

Peng, Zhang; Pineda Rojas, Andrea L.; Kropff, Emilio; **Kurnitski, Jarek** Environmental science & technology 2022 / p. 1125-1137 <https://doi.org/10.1021/acs.est.1c06531> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Proceedings of the Baltic Symposium on Indoor Air Quality and Building Physics : a satellite conference of Healthy Buildings 2000, August 6-10, 2000, Espoo, Finland : Tallinn Technical University, Estonia, 11-12 August, 2000

2000 https://www.ester.ee/record=b1418381*est

Puhta õhu märgisega kaubanduskeskustes on tagatud kõrgeimad ventilatsiooninõuded [Võrguväljaanne]

goodnews.ee 2022 [Puhta õhu märgisega kaubanduskeskustes on tagatud kõrgeimad ventilatsiooninõuded](#)

Qualitative and quantitative determination of chemicals and dust in the air of the work environment

Traumann, Ada; **Tint, Piia** The 9th International Conference "Environmental Engineering" : 22-23 May 2014, Vilnius, Lithuania : selected papers 2014 / p. 1-10 : ill

Sampling and analysis techniques for inorganic air pollutants in indoor air

Villanueva, Florentina; Rodenas, Milagros; **Ruus, Aime** Applied spectroscopy reviews 2022 / p. 531-579 <https://doi.org/10.1080/05704928.2021.2020807> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sisekeskkonna algandmed hoonete energiatõhususe projekteerimiseks ja hindamiseks, lähtudes siseõhu kvaliteedist, soojuslikust mugavusest, valgustusest ja akustikast

Hääl, Kaido 2010 https://www.ester.ee/record=b2563279*est

Siseõhk ei sõltu seinte valikust

Kalamees, Targo Äripäev 2003 / 19. aug., lk. 13

Sixth grade pupils' health and performance and indoor environmental quality in Finnish school buildings

Haverinen-Shaughnessy, Ulla; Turunen, Mari; Metsämuuronen, Jari; Palonen, Jari; Putus, Tuula; **Kurnitski, Jarek**; Shaughnessy, Richard British journal of educational research 2012 / p. 42-58 <https://journal.jesbs.com/index.php/JESBS/article/view/782>

Spray-pyrolysis synthesised TiO₂ thin films for photocatalytic air treatment from volatile organic compounds

Sydorenko, Jekaterina; **Krunks, Malle**; **Mere, Arvo**; **Kritševskaja, Marina**; **Oja Acik, Ilona** Proceedings 2023 / art. 37 <https://doi.org/10.3390/proceedings2023092037>

Zonal modeling of air distribution impact on the long-range airborne transmission risk of SARS-CoV-2

Aganovic, Amar; Cao, Guangyu; **Kurnitski, Jarek**; Melikov, Arsen Kriko; Wargocki, Pawel Applied mathematical modelling 2022 / p. 800-821 <https://doi.org/10.1016/j.apm.2022.08.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The influence of energy renovation on the change of indoor temperature and energy use

Hamburg, Anti; **Kalamees, Targo** Energies 2018 / art. 3179, p. 1-15 : ill <https://doi.org/10.3390/en11113179> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TiO₂ thin films by ultrasonic spray pyrolysis for photocatalytic air-cleaning applications = TiO₂ õhukesed kiled ultraheli pihustuspürolüüsi meetodil õhu fotokatalüütiliseks puhastamiseks

Dündar, Ibrahim 2021 https://www.ester.ee/record=b5408882*est <https://digikogu.taltech.ee/et/item/266d75a3-ff2e-4bcf-aa54-2151511e871f>
<https://doi.org/10.23658/taltech.13/2021>

Transmission of SARS-CoV-2 by inhalation of respiratory aerosol in the Skagit Valley Chorale superspreading event
Miller, Shelly L.; Nazaroff, William W.; Jimenez, Jose L.; **Kurnitski, Jarek** Indoor air 2021 / p. 314-323 <https://doi.org/10.1111/ina.12751>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Transparent TiO₂ thin films with high photocatalytic activity for indoor air purification
Sydorenko, Jekaterina; Mere, Arvo; Krunks, Malle; Krichevskaya, Marina; Oja Acik, Ilona RSC advances 2022 / p. 35531-35542 <https://doi.org/10.1039/D2RA06488J> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Uudsed pinnakatted puhastavad õhu kahjulikest viirustest ja bakteritest [Võrguväljaanne]
Sydorenko, Jekaterina novaator.err.ee 2021 ["Uudsed pinnakatted puhastavad õhu kahjulikest viirustest ja bakteritest"](#)

Uudsed pinnakatted puhastavad õhu kahjulikest viirustest ja bakteritest [Võrguväljaanne]
digi.geenius.ee 2021 ["Uudsed pinnakatted puhastavad õhu kahjulikest viirustest ja bakteritest "](#)

Uus meetod lubab tulevikuhooned pandeemia ajal lahti hoida [Võrguväljaanne]
postimees.ee 2021 ["Uus meetod lubab tulevikuhooned pandeemia ajal lahti hoida"](#)

Uus meetod tagab hoones puhta siseõhu
Kurnitski, Jarek Ehitaja 2021 / lk. 20 https://www.ester.ee/record=b1072123*est

Water vapour mobilises building related non-volatile chemicals and mycotoxins and may be used to remove substances of potential health hazard from indoor surfaces
Selkäinaho, Jorma; Harmo, Panu; **Kurnitski, Jarek** Roomvent&Ventilation 2018 : Excellent Indoor Climate and High Performing Ventilation : proceedings 2018 / p. 91-96 : ill <https://www.lyyti.fi/e/?p=s&k=76eA857eee2A33adcE00b0E> <https://www.lyyti.fi/e/?p=s&k=a0E0486b2BC6d8D0F880e96C> https://www.lyyti.fi/reg_att/efA658E7F74904eE7C/0346A5827dBb77E92710.pdf

VAV fan coil and demand controlled active chilled beam systems energy efficiency and thermal comfort performance comparison in a Japanese office building
Ahmed, Kaiser; Yoon, Gyuyoung; Ukai, Makiko; **Kurnitski, Jarek** E3S Web of Conferences : BuildSim Nordic 2024 2024 / art. 06004 <https://doi.org/10.1051/e3sconf/202456206004> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Whole building algorithm for indoor air quality classification based on measured CO₂ data
Aljas, Hans Kristjan; Parts, Tuule Mall; Thalfeldt, Martin Healthy Buildings 2023 Europe: Beyond Disciplinary Boundaries: proceedings ; 2 2023 / p. 852-859 : ill <https://www.proceedings.com/content/070/070278webtoc.pdf>

Võid rahulikult hingata: nutikas ventilatsiooniseade hoolitseb õhukvaliteedi eest ise
Äripäev 2020 / Lk. 11-12 https://www.ester.ee/record=b2122331*est